Notice of Allowability	Application No.	Applicant(s)	
	10/768,848 KUO ET AL.		
	Examiner	Art Unit	
	David Nhu	2818	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate comm IGHTS. This application is	n this application. If not included unication will be mailed in due cour	rse. THIS
1. This communication is responsive to <u>1/29/04</u> .			
2. The allowed claim(s) is/are 1-20.			
3. \boxtimes The drawings filed on <u>29 January 2004</u> are accepted by th	e Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority unexpected by the attached Examiner' 4. ☐ Acknowledgment is made of a claim for foreign priority unexpected by the attached Examiner' a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents and priority documents are copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the priority documents have 3. ☐ Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submit including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	e been received. e been received in Application of this communication to file MENT of this application. Initted. Note the attached EX es reason(s) why the oath of the submitted. Son's Patent Drawing Review.	on No d in this national stage application e a reply complying with the require AMINER'S AMENDMENT or NOTIC r declaration is deficient. w (PTO-948) attached	ements
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in 1	.84(c)) should be written on t	he drawings in the front (not the bac FR 1.121(d).	k) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No. 08), 7. ☐ Examiner's	oformal Patent Application (PTO-15) ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowar	

Application/Control Number: 10/768,848 Page 2

Art Unit: 2818

REASONS FOR ALLOWANCE

2. Claims 1-20 are allowed.

bumps (as cited in claim 17).

3. The following is an examiner's statement of reasons for allowance: None of the references of record teaches or suggests as cited in claims 1, 13, 17: A method for preventing detachment of functional solder bumps from a flip chip having empty spaces between adjacent ones of the functional solder bumps, comprising: stabilizing the functional solder bumps on the flip chip by providing an anchoring solder bump in each of at least a portion of the empty spaces, respectively; and providing a printed circuit board (PCB) substrate on said functional solder bumps and said anchoring solder bumps (as cited in claims 1, 13); providing a solder bridge between each of said anchoring solder bumps and one of the functional solder bumps; and providing a PCB substrate on said functional solder bumps and said anchoring solder

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Gao et al (6,686,665 B1): Solder Pad Structure for Low Temperature Co-Fired Ceramic Package and Method for Making the same.

Application/Control Number: 10/768,848

Art Unit: 2818

6. Any inquiry concerning this communication on earlier communications from the examiner should be directed to David Nhu, (571)272-1792. The examiner can normally be reached on Monday-Friday from 7:30 AM to 5:00 PM.

The examiner's supervisor, David Nelms can be reached on (571)272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956

David Nhu

April 28, 2005

Page 3